HASEGAWA et al.

Atty. Dkt.: Q89903

Preliminary Amendment

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AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the

application:

LISTING OF CLAIMS:

1. (original): A titania nanotube having a length of 1 μm or more.

2. (original): The titania nanotube according to Claim 1 the diameter is 0.1 μm or

less.

3. (original): The titania nanotube according to Claim 1 or 2 wherein the aspect

ratio is 100 or more.

4. (currently amended): A sensor having the titania nanotube according to any of

Claims 1 to 3Claim 1 or 2 and an electrode in which the titania nanotube and the electrode are

connected.

5. (original): A method for producing a titania nanotube, comprising a step of

dispersing a titania powder in a sodium hydroxide aqueous solution at a temperature of 60°C or

more.

6. (original): The method according to Claim 5 wherein the titania powder has an

average particle diameter of 50 nm or less.

7. (original): The method according to Claim 5 or 6 wherein the amount of the

titania powder is 0.01 part by weight or more and 0.1 part by weight or less based on 100 parts

by weight of a sodium hydroxide aqueous solution.

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- 8. (currently amended): The method according to any of Claims 5 to 7Claim 5 or 6, wherein the sodium hydroxide aqueous solution has a concentration of sodium hydroxide of 1 M or more and 15 M or less.
- 9. (original): The method according to Claim 8 wherein the sodium hydroxide aqueous solution has a concentration of sodium hydroxide of 3 M or more and 13 M or less.
- 10. (original): The method according to Claim 9 wherein the sodium hydroxide aqueous solution has a concentration of sodium hydroxide of 7 M or more and 12 M or less.
- 11. (currently amended): The method according to any of Claims 5 to 10 Claim 5, wherein dispersion is conducted at 90°C or more and 120°C or less.
- 12. (currently amended): The method according to any of Claims 5 to 11 Claim 5, wherein dispersion is conducted by stirring or irradiation with an ultrasonics.
- 13. (original): The method according to Claim 12 wherein dispersion is conducted by stirring.
- 14. (new): A sensor having the titania nanotube according to Claim 3 and an electrode in which the titania nanotube and the electrode are connected.
- 15. (new): The method according to Claim 7, wherein the sodium hydroxide aqueous solution has a concentration of sodium hydroxide of 1 M or more and 15 M or less.